



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4091-1

Job Sheet 184126



Part No: D4091-1

Job Qty: 30 ea

Part Name: Mounting Lug



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/3/18

Job Tracking No:

Due Date: 11/2/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: Dwg D4091 Rev. A IPP REV :A NEW ISSUE 10-03-31 JLM VERIFIED BY:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	30 pcs		11/2/18	0.00	0.00	Purchasing		OCT 12 2018
110	Packaging	30 pcs		11/2/18	0.00	0.00	Packaging2		OCT 12 2018
130	QC	30 pcs		11/2/18	0.00	0.00	QC6		OCT 12 2018
160	QC	30 pcs		11/2/18	0.00	0.00	QC3 NOT REQUIRED		9-89
170	Packaging	30 pcs		11/2/18	0.00	0.00	Packaging3-2		OCT 15 2018
180	QC21-SA	30 Ea		11/2/18	0.00	0.00	QC21		OCT 15 2018

Part Op Descriptions: 100 - ISSUE PO TO METEC, NOTE ALODINE AND PAINT AS PER QSI 005

PO 041245 x 30

OCT 03.2018

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OCT 15 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2423	Lug Extrusion	3.7530 ft (.1251 ea)	100-Purchasing	5117887
D4091-1P	Lug	30 pcs (1 ea)	100-Purchasing	5117686

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D2423	4	279	0
	D4091-1P	30	40	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Mounting Lug	1.380Inches ± 0.030	1.410 1.350		
2	Mounting Lug	4.450Inches ± 0.030	4.480 4.420		
3	Mounting Lug	0.270Inches ± 0.030	0.300 0.240	Reference	
4	Mounting Lug	1.910Inches ± 0.030	1.940 1.880		
5	Mounting Lug	0.690Inches ± 0.030	0.720 0.660		
6	Mounting Lug	0.293Inches ± 0.010	0.303		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Container No: S117688 Part: D4091 - 1 Job No: 184126 Serial No/Batch: S117688 Revision: A Inspector: Exp Date: Instructions: Various STC's		Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 613 632 - 5200 Email: sales@dartaero.com www.dartaerospace.com		ON ework ☐ Scrap ☐ e-as-is ☐ proved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier ☐							
				QTY Effective :				MRB (QSI042) Approval					
				Disposition									
				Completed By									
				Lead hand / Supervisor Approval Verification									
				QC / QA Coordinator Approval									

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐								
Misidentified	☐	Past Due	☐	OTHER :							

7	Mounting Lug	0.735Inches ± 0.010	0.283 0.745 0.725	Reference
8	Mounting Lug	0.375Inches ± 0.010	0.385 0.365	
9	Mounting Lug	3.700Inches ± 0.010	3.710 3.690	
10	Mounting Lug	0.625Inches ± 0.010	0.635 0.615	
11	Mounting Lug	0.375Inches ± 0.010	0.385 0.365	
12	Mounting Lug	0.257Inches + 0.006 - 0.001	0.263 0.256	Diameter
13	Mounting Lug	0.400Inches ± 0.030	0.430 0.370	Radius
14	Mounting Lug	2.310Inches ± 0.010	2.320 2.300	Reference

Plex 10/3/18 8:53 AM Dart.lajeunesse.marie

DQA: _____ Date: _____

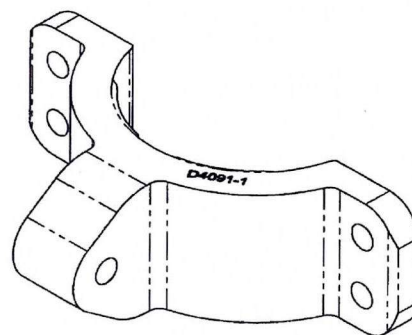


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐									
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval							
Description Work Order Deviation		Disposition		Completed By							
				Lead hand / Supervisor Approval Verification							
				QC / QA Coordinator Approval							
Root Cause <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	FAULT CATEGORY <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"> Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width:33%;"> Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> <td style="width:33%;"> Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> <td style="width:33%;"> Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐ </td> </tr> </table>				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
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OTHER : _____											



D4091-1 MOUNTING LUG

RELEASED
2010-04-28

NOTES:

- 1) MATERIAL: MAKE FROM D2423 EXTRUSION
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO A DEPTH OF 0.010 ± 0.005 IN THIS LOCATION WITH A TOOL TIP RADIUS OF 0.015 ± 0.005
- 7) WEIGHT: 0.31 lbs

A		NEW ISSUE		CP	10.03.29
REV.		DESCRIPTION		BY	DATE
DESIGN	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. A	
DRAWN	CP			SHEET 1 OF 2	
CHECKED		DRAWING NO.		D4091	
MFG. APPR.		TITLE		SCALE	
APPROVED		MOUNTING LUG		NTS	
DE APPR.		COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			
DATE	10.03.29				



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041245

Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041245

PO Date: 10/3/18

Due Date: 11/2/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Revision

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	184126	D4091-1P			Lug : Various STC's As Per Dwg D4091 Rev. A Alodine and Paint as Per QSI 005	Firmed -		11/2/18	30 pcs	0 pcs	30 pcs	\$17.40/pcs	\$522.00
2	184122	D3910-5P			Crosstube Lug : Various STC's As Per Dwg D3910 Rev. E Alodine and Paint as Per QSI 005	Firmed -		11/2/18	30 pcs	0 pcs	30 pcs	\$17.40/pcs	\$522.00
3	184125	D3910-1P			Crosstube Lug : Various STC's As Per Dwg D3910 Rev. E Alodine and Paint as pe QSI 005	Firmed -		11/2/18	30 pcs	0 pcs	30 pcs	\$17.40/pcs	\$522.00
Grand Total:													\$1,566.00

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041245

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

A handwritten signature in black ink, appearing to be "P. Lussier", located to the right of the list of procurement quality clauses.

Plex 10/10/18 8:44 AM dart.Lussier.Patrick



www.metec.ca | 20 Terry Fox Drive, Vankleek Hill, Ontario, Canada K0B 1R0 | Phone: +1 613-678-3957 Fax: +1 613-678-3956

Packing List

Bill Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Att. Patrick Lussier

Shipment No: 24105
Shipment Date: 10-Oct-2018
Ship Via: Pick up at METEC
Order Number: 3069
Order Date: 10/03/18

Customer Code: DART
Phone: (613) 632-9577
PO Number: PO041245 ✓
Terms: Net 60 Days

----- Quantity -----								Job
<u>Item</u>	<u>Open</u>	<u>Shipped</u>	<u>B/O</u>	<u>Canceled</u>	<u>Unit</u>	<u>Description</u>	<u>Revision</u>	<u>Number</u>
1	30	30 ✓	0	0	EA	DART-D4091-1P Lug as per drawing D4091 Rev.A ✓		3069-01 ✓

The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.

Received In Good Order By
Att. Patrick Lussier



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	Dwg Rev.#	Material Batch #	Paint Batch #	P.O. Number
30 ✓	D4091-1 ✓	Mounting Lug	A	B148835	21095	41245 ✓

MATERIAL: supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

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Heather Nixon

Vankleek Hill, October 10, 2018